CUMULATIVE TABLE OF CONTENTS

Number 1
Lung Imaging
Charles Putman, M.D., Guest Editor

The "Optimal" Chest Radiograph 1
Carl E. Ravin, M.D. and G. Allan Johnson, Ph.D.

Bronchography and Fluoroscopy 15
James T.T. Chen, M.D.

Radionuclide Studies in Lung Disease 31
Daniel C. Sullivan, M.D.

Examination of the Chest with Computed Tomography 43
J. David Godwin, M.D.

Interventional Aspects of Chest Radiology 58
Dennis K. Heaston, M.D.

Evaluating Lung Density by Computed Tomography 76
Laurence W. Hedlund, Ph.D., Peter Vock, M.D., and Eric L. Effman, M.D.

New Imaging Modalitics for Evaluating Pulmonary Disease 89
Nicholas Frankel, M.D. and R. Edward Coleman, M.D.

Number 2
Man at Altitude
John R. Sutton, M.D., Guest Editor

A Brief History of Research in Altitude Illness 103
Charles S. Houston, M.D.

Mount Cho Oyu, 1952, Mount Everest, 1953 109
L. Griffith C.E. Pugh, M.A., B.M., B.Ch.

The Silver Hut: Physiologic and Medical Aspects of the Himalayan Scientific and Mountaineering Expedition, 1960–1961 113
L. Griffith C.E. Pugh, M.A., B.M., B.Ch.

The Arctic Institute of North America High Altitude Physiology Study, 1967–1979 122
Charles S. Houston, M.D.

American Medical Research Expedition to Everest, 1981 126
John B. West, M.D., Ph.D.

Classification and Terminology of Altitude Illnesses 129
John R. Sutton, M.D.

Acute Mountain Sickness 132
Peter H. Hackett, M.D. and Drummond Rennie, M.D.

High Altitude Pulmonary Edema 141
Gary W. Gray, M.D., Ph.D.

High Altitude Cerebral Edema: Cerebral Acute Mountain Sickness 151
John G. Dickinson, D.M., F.R.C.P.

High Altitude Retinal Hemorrhage 159
John R. Sutton, M.D.

Chronic Mountain Sickness 164
Meir H. Kryger, M.D., F.R.C.P.(C) and Robert F. Grover, M.D., Ph.D.

Periodic Breathing at Altitude 169
Kingman P. Strohl, M.D. and Janie M. Fouke, Ph.D.

Sleep at Altitude 175
A.C. Peter Powles, M.D. and John R. Sutton, M.D.

Red Cell Mass and Aerobic Performance at Sea Level 181
F.J. Buick, M.Sc., Norman Gledhill, Ph.D., Alison B. Froese, M.D., and Lawrence L. Spriet, M.Sc.

Bloodletting at High Altitude 188
Robert M. Winslow, M.D.

Reappraisal of Andean High Altitude Erythrocytosis from a Himalayan Perspective ... 195
Cynthia M. Beall, Ph.D., Kingman P. Strohl, M.D., and Gary M. Brittenham, M.D.

Thrombosis and Frostbite 202
Michael Ward, F.R.C.S.

High Altitude Ills: A Malady of Water, Electrolyte, and Hormone Imbalance? 207
Melvyn P. Heyes, Ph.D. and John R. Sutton, M.D.

Climbing Everest Without Oxygen 213
John R. Sutton, M.D. and L. Griffith C.E. Pugh, M.A., B.M., B.Ch.

Number 3
Immunologic Lung Disease
John E. Salvaggio, M.D. and Richard D. deShazo, M.D., Guest Editors

Lung Response to Antigen 217
David E. Bice, Ph.D. and Bruce A. Maggenburg, D.V.M., Ph.D.

Occupational Asthma: Classification and Clinical Aspects 229
Robert J. Davies, M.D., F.R.C.P. and A. David Blainey, M.R.C.P.

CUMULATIVE TABLE OF CONTENTS

Number 1
Lung Imaging
Charles Putman, M.D., Guest Editor

The "Optimal" Chest Radiograph 1
Carl E. Ravin, M.D. and G. Allan Johnson, Ph.D.

Bronchography and Fluoroscopy 15
James T.T. Chen, M.D.

Radionuclide Studies in Lung Disease 31
Daniel C. Sullivan, M.D.

Examination of the Chest with Computed Tomography 43
J. David Godwin, M.D.

Interventional Aspects of Chest Radiology 58
Dennis K. Heaston, M.D.

Evaluating Lung Density by Computed Tomography 76
Laurence W. Hedlund, Ph.D., Peter Vock, M.D., and Eric L. Effman, M.D.

New Imaging Modalitics for Evaluating Pulmonary Disease 89
Nicholas Frankel, M.D. and R. Edward Coleman, M.D.

Number 2
Man at Altitude
John R. Sutton, M.D., Guest Editor

A Brief History of Research in Altitude Illness 103
Charles S. Houston, M.D.

Mount Cho Oyu, 1952, Mount Everest, 1953 109
L. Griffith C.E. Pugh, M.A., B.M., B.Ch.

The Silver Hut: Physiologic and Medical Aspects of the Himalayan Scientific and Mountaineering Expedition, 1960–1961 113
L. Griffith C.E. Pugh, M.A., B.M., B.Ch.

The Arctic Institute of North America High Altitude Physiology Study, 1967–1979 122
Charles S. Houston, M.D.

American Medical Research Expedition to Everest, 1981 126
John B. West, M.D., Ph.D.

Classification and Terminology of Altitude Illnesses 129
John R. Sutton, M.D.

Acute Mountain Sickness 132
Peter H. Hackett, M.D. and Drummond Rennie, M.D.

High Altitude Pulmonary Edema 141
Gary W. Gray, M.D., Ph.D.

High Altitude Cerebral Edema: Cerebral Acute Mountain Sickness 151
John G. Dickinson, D.M., F.R.C.P.

High Altitude Retinal Hemorrhage 159
John R. Sutton, M.D.

Chronic Mountain Sickness 164
Meir H. Kryger, M.D., F.R.C.P.(C) and Robert F. Grover, M.D., Ph.D.

Periodic Breathing at Altitude 169
Kingman P. Strohl, M.D. and Janie M. Fouke, Ph.D.

Sleep at Altitude 175
A.C. Peter Powles, M.D. and John R. Sutton, M.D.

Red Cell Mass and Aerobic Performance at Sea Level 181
F.J. Buick, M.Sc., Norman Gledhill, Ph.D., Alison B. Froese, M.D., and Lawrence L. Spriet, M.Sc.

Bloodletting at High Altitude 188
Robert M. Winslow, M.D.

Reappraisal of Andean High Altitude Erythrocytosis from a Himalayan Perspective ... 195
Cynthia M. Beall, Ph.D., Kingman P. Strohl, M.D., and Gary M. Brittenham, M.D.

Thrombosis and Frostbite 202
Michael Ward, F.R.C.S.

High Altitude Ills: A Malady of Water, Electrolyte, and Hormone Imbalance? 207
Melvyn P. Heyes, Ph.D. and John R. Sutton, M.D.

Climbing Everest Without Oxygen 213
John R. Sutton, M.D. and L. Griffith C.E. Pugh, M.A., B.M., B.Ch.

Number 3
Immunologic Lung Disease
John E. Salvaggio, M.D. and Richard D. deShazo, M.D., Guest Editors

Lung Response to Antigen 217
David E. Bice, Ph.D. and Bruce A. Maggenburg, D.V.M., Ph.D.

Occupational Asthma: Classification and Clinical Aspects 229
Robert J. Davies, M.D., F.R.C.P. and A. David Blainey, M.R.C.P.

Allergic Bronchopulmonary Aspergillosis 240
David J. Hendrick, M.D., M.R.C.P.
Hypersensitivity Pneumonitis 246
Mark Schuyler, M.D. and
John E. Salvaggio, M.D.
Idiopathic Pulmonary Fibrosis 255
Jane E. Morgan, Ph.D.,
Harold W. Barkman, M.D.,
and Nell Pape Waring, M.D.
Pulmonary Injury Caused by Anti-Basement Membrane Antibodies 264
Andrew J. Rees, M.B., M.Sc., F.R.C.P.
Pulmonary Manifestations of the Collagen Vascular Diseases 273
N. James Doll, M.D. and
John E. Salvaggio, M.D.
Immunologic Alterations in Silicosis 282
Richard P. Stankus, Ph.D., M.D. and
Daniel E. Banks, M.D.
Is the Immune System a Contributing Factor to the Pathogenesis of Asbestosis? An Evaluation 289
Brian E. Bozelka, Ph.D.,
Robert N. Jones, M.D.,
and Richard D. deShazo, M.D.

Number 4
Pulmonary Secretions
Adam Wanner, M.D., Guest Editor

Structure of the Human Airway Mucosa 301
Jennifer M. Sturgess, Ph.D.
Innervation of the Airway Mucosa and Submucosa 308
Carol B. Basbaum, Ph.D.
Production of Airway Secretions 314
Roger J. Phipps, Ph.D.
Clearance of Airway Secretions 319
Stewart W. Clarke, M.D., F.R.C.P.
Atmospheric Pollutants and Cigarette Smoke 324
William M. Abraham, Ph.D.
Chronic Bronchitis 329
Adam Wanner, M.D.
Bronchial Asthma 332
Adam Wanner, M.D.
Cystic Fibrosis 336
Robert E. Wood, Ph.D., M.D.
Acute Respiratory Infections 340
Adam Wanner, M.D.
Primary Ciliary Dyskinesia 341
Michael T. Newhouse, M.D. and
Carol Rossman, B.Sc.
Effects of Pharmacologic Agents on the Clearance of Airway Sections 345
Demetri Pavia, M.Sc., Ph.D.
Respiratory Physical Therapy 353
Philip P. Sutton, B.Sc., M.R.C.P.